

# HERMES Series

## Metal Casing 2.5" SATA II MLC SSD



### Product features

- MLC - NAND type flash technology
- 2.5" SATA SSD form-factor
- SATA 1.0a and SATA 2.6 specification compliance
- SATA 7-pin (data) + 15-pin (power connector)
- Aluminum-alloy metal casing
- Performance up to 167.8MB/sec
- Capacity from 8GB up to 256GB
- Include USB 2.0 Mini-B type connector to be an external hard drive solution

### Product specifications

<b>Compatibility</b>	SATA 1.0a and SATA 2.6 specification compliance	<b>Power consumption</b>	Power requirement	+5V ± 10%
<b>Flash technology</b>	MLC-NAND type flash based	Reading mode	450mA (Max.)	
<b>Form-factor</b>	Metal 2.5" SATA SSD	Writing mode	500mA (Max.)	
<b>Host Interface</b>	SATA 7-pin (data) + 15-pin (power)	Sleeping mode	320mA (Max.)	
	Include USB 2.0 Mini-B type connector to be an external hard drive solution	<b>Reliability</b>		
<b>Performance</b>		Wear-leveling	Static wear-leveling algorithms	
Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	ECC	8 bits or 15 bits per 512 bytes block	
Sequential read	167.8 MB/sec (Max.)	Endurance	Endurance management enables 5 years minimal useful life	
Sequential write	92.1 MB/sec (Max.)	<b>Physical specification</b>		
Average access time	0.2ms (estimated)	Weight (max.)	115g ± 5g / 4.06 oz.	
<b>Environmental specification</b>		Dimension(W x L x H)	69.90 x 99.95 x 9.40 (mm)	
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	<b>Conformal coating</b>	Option for wide temperature	
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	<b>Warranty</b>		
Humidity	10% ~ 95% non-condensing	Standard grade	1 year	
Vibration	15G peak-to-peak max	Industrial grade	3 years	
Shock	1,500G Max.			
Altitude	70,000 feet			

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

### Part number list - 2.5" metal casing SATA II MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SM2SF008G-JACMC	WM2SF008G-JACMC/C
	16GB	SM2SF016G-JACMC	WM2SF016G-JACMC/C
	32GB	SM2SF032G-JACMC	WM2SF032G-JACMC/C
	64GB	SM2SF064G-JACMC	WM2SF064G-JACMC/C
	128GB	SM2SF128G-JACMC	WM2SF128G-JACMC/C
	256GB	SM2SF256G-JACMC	WM2SF256G-JACMC/C

### Remarks:

Industrial grade -40°C ~ +85°C ( With special conformal coating treatment on PCBA )

### Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	/	C				
S	M	2	S	F	1	2	8	G	—	J	A	C	M	C						

### X1 Grade

S : Standard grade operating temp. 0°C ~ 70°C

W : Industrial grade operating temp. -40°C ~ +85°C

### X12 Controller version

A, B, C, .....

### X13 Controller grade

C : Commercial grade

### X2 The material of casing

M : Metal casing

### X14 Flash IC

M : MLC-NAND flash IC

### X3 X4 X5 Product category

2SF : 2.5" SATA II SSD

### X15 Flash IC grade

C : Commercial grade

### X6 X7 X8 X9 Capacity

008G : 8GB      064G : 64GB

016G : 16GB      128G : 128GB

032G : 32GB      256G : 256GB

### C Reserved for specific requirement

C : Conformal-coating

### X11 Controller

J : JMicon (HERMES Series)

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC M5F

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC M5F

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive